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DEPARTMENT OF HEALTH AND HUMAN SERVICES

Public Health Service

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February 22, 1988

National Toxicology Program; Chemicals (7) and One Substance Nominated for Toxicological Studies; Request for Comments

SUMMARY: On December 9, 1987, the Chemical Evaluation Committee (CEC) of the **National Toxicology Program** (NTP) met to review seven chemicals and one substance nominated for toxicology studies and to recommend the types of studies to be performed, if any. With this notice, the NTP solicits public comments on the seven chemicals and one substitute listed herein.

FOR FURTHER INFORMATION CONTACT: Dr. Victor A. Fung, Chemical Selection Coordinator, **National Toxicology Program,** Room 2B55, Building 31, National Institutes of Health, Bethesda, Maryland 20892, (301) 496-3511.

TEXT: SUPPLEMENTARY INFORMATION: As part of the chemical selection process of the National Toxicology Program, nominated chemicals which have been reviewed by the NTP Chemical Evaluation Committee (CEC) are published with request for comment in the Federal Register. This is done to encourage active participation in the NTP chemical evaluation process, thereby helping the NTP to make more informed decisions as to whether to select, defer or reject chemicals for toxicology study. Comments and data submitted in response to this request are reviewed and summarized by NTP technical staff, are forwarded to the NTP Board of Scientific Counselors for use in their evaluation of the nominated chemicals, and then to the NTP Executive Committee for decision-making. The NTP chemical selection process is summarized in the Federal Register, April 14, 1981 (46 FR 21828), and also in the NTP FY 1987 Annual Plan, pages 17-19.

On December 9, 1987, the CEC met to evaluate seven chemicals and one substance (pitch-based fibrous graphite) nominated to the NTP for toxicological studies. The following table lists the chemicals and the substance, their Chemical Abstract Service (CAS) registry numbers, and the types of toxicological studies recommended by the CEC at the meeting.

Chemical/Substance	CAS Registry No.	Committee Recommendations
1. Anthraquinone	84-65-1	Chronic toxicity. Carcinogenicity.
2. Camphor	76-22-2	Carcinogenicity. Teratology and reproductive effects.
3. 1-Choloro-2-bromoethane	107-04-0	Carcinogenicity.
4. Glyoxal	107-22-2	Carcinogenicity Teratogenicity.
5. Lead oxide	1317-36-8	Acute and subchronic comparative toxicity studies of lead oxide and lead sulfide.

Chemical/Substance	CAS Registry No.	Committee Recommendations
6. Lead sulfide	1314-87-0	Do.
7. Pitch-based fibrous graphite		Defer.
8. Urethane	51-79-6	Carcinogenicity. In utero carcinogenesis study. Oncogene activitation study. DNA adduct formation. Interaction study of urethane and ethanol.

Two of the seven chemicals have previously been selected for study by the NTP. Anthraquinone was mutagenic in Salmonella. Urethane was mutagenic in Salmonella, and induced sex-linked recessive lethal mutations and reciprocal translocations in Drosophila. Urethane also induced sister chromatid exchanges but not chromosomal aberrations in Chinese hamster ovary cells. The NTP has completed an immunology study and is currently conducting pharmacokinetics studies on urethane.

Two of the seven chemicals, lead oxide and lead sulfide, were previously reviewed by the CEC on September 29, 1987, and were deferred to obtain more information from the nomination source regarding the types of recommended studies. Pitch-based fibrous graphite was also previously evaluated by the CEC on January 13, 1987, and was deferred in order to obtain more information on production, worker exposure, physical characteristics of the substance, and toxicology data. One manufacturer informed the NTP of ongoing toxicology studies. On the basis of this information, the CEC deferred pitch-based fibrous graphite pending the completion of these studies.

Interested parties are requested to submit pertinent information. The following types of data are of particular relevance:

(1) Modes of production, present production levels, and occupational exposure potential.

(2) Uses and resulting exposure levels, where known.

(3) Completed, ongoing and/or planned toxicologic testing in the private sector including detailed experimental protocols and results, in the case of completed studies.

(4) Results of toxicological studies of structurally related compounds.

Please submit all information in writing by March 23, 1988. Any submissions received after the above date will be accepted and utilized where possible.

Dated: February 16, 1988.

David P. Rall,

Director, National Toxicology Program.

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